

ABSTRACT OF THE DISCLOSURE

The present invention is to prevent the rapid viscosity rise generated at the time of dissolving or dispersing in a solvent a polymer obtained by reacting a material polymer having an acidic functional group and a hydroxyl group in the principal chain part with an isocyanate compound, in particular, a photo-curing polymer obtained by reaction with a radical polymerizable group-containing isocyanate compound. A highly stable polymer can be obtained by reacting a material polymer having a principal chain including at least a component unit having an acidic functional group and a component unit having a hydroxyl group with an isocyanate compound, and further reacting the same with an alcohol. Moreover, by producing a material polymer using a non-nitrile azo-based or peroxide-based polymerization initiator and/or introducing an isocyanate compound using a polymerization inhibitor selected from the compounds represented by the above-mentioned formulae (10) and (16), the transparency can be improved. A photo-curing polymer obtained in the present invention is suited for forming a protection film of a color filter and a column-like spacer of a liquid crystal panel.